Improving Acquisition Execution Situational Awareness: Central Repository Pilot

Status Report

Debbie Tomsic (AT&L/ARA)

Ron Lile (Director, DCARC)

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Central Repository Pilot

- *Objective:*
  - *Demonstrate and evaluate the feasibility of implementing an automated Central Repository (CR) that provides for the centralized reporting, collection, and distribution for Key Acquisition Data, starting with Contract Performance Reports (CPRs).*

- *Develop and implement test policies and procedures to evaluate:*
  - *Complete, accurate, timely, and secure transfer of electronic data from the contractor to the CR.*
  - *Secure and controlled warehousing of data in the CR.*
  - *Controlled, timely, and secure access to data by authorized users.*
  - *Business rules that govern reporting, access, and availability of data.*
  - *Estimated workload impact and required resources to implement CR.*

- *Goal:*
  - *Develop a set of business rules for possible DoD-wide implementation that are supported by a consensus of the CR participants.*

Repository Pilot Programs

Program	Service	Center	Contractor	DAES Group
C-17A*	Air Force	ASC	Boeing	A
Global Hawk	Air Force	ASC	Northrop Grumman	A
SBIRS HIGH	Air Force	SMC	Lockheed-Martin	A
ARH	Army	AMCOM	Bell	C
JLENS	Army	AMCOM	Raytheon	A
Land Warrior	Army	CECOM	General Dynamics	B
P-8 (MMA)	Navy	NAVAIR	Boeing	C
SM-6	Navy	NAVSEA	Raytheon	A
MUOS	Navy	SPAWAR	Lockheed-Martin	B

* -- Replaced JASSM, which was listed in the original memo

EVM CR Pilot Overview

- **Key Requirements:**
  - *Complete, accurate, timely, and secure transfer of electronic data from the contractor to the CR.*
  - *Secure, web-accessible central repository providing timely access to data to diverse users*
  - *Controlled, timely, and secure access to data by authorized users.*
- **What it means…**
  - *Monthly EVM data submissions to a single, centralized location*
  - *Timely review and access by stakeholders*
  - *Automated access to summary data (e.g., level 1 data pushed to DAMIR)*
  - *Single data source; minimized duplication of effort and double sets of numbers.*

EVM CR Pilot Architecture

- **Security**
  - *Digital certificate, user id, and password needs to be issued to authorized users (or CAC registration and access approved)*
- **Data Processing Steps**
  - *Data submissions by contractors via secure upload.*
  - *Data held in review area for fixed time period*
    - *Automated business process for review and distribution of data*
    - *Automatic email to stakeholders to ensure timely review*
    - *Stakeholders comments stay with data*
    - *Automatic time stamping of events for metrics reporting*
  - *Data published to DAMIR and Repository*

Evolving EVM CR Pilot Business Rules

	Upload	Immediate Access in Holding Area	After 5 Days (in Holding Area)	After 10 days (in Central Repository)
Contractor	❌	❌		
PM Office		❌		✅
PM Support Cntr		❌ *		
PEOs and SAEs			❌	✅
DCMA/Oversight			❌	✅
OSD/AT&L				✅ **
Other Gov't Analysts				✅

❌ = Own program(s)/Contracts only   ✅ = All programs

* -- As approved by PM and Contractor (data provider)

** -- This is also when CR will automatically push level 1 CPR data to DAMIR

Business Rules Timeline (days)

-12 to -17 business days*   **0**   **+5**   **+10**   **+15**

- As-of Date of CPR

- Contractor submits CPR to Repository.

- PM receives automatic notice of submittal and has immediate access

- PEO can access the submittal and ask the PM questions about the data

- OSD and Gov't Cost Estimators can access the submittal

- **(Phase 4) CR automatically pushes level 1 data to DAMIR**

- Earliest date that others can ask the PM questions about the data

* -- Effective with new contracts under March 2005 EVM Policy. Legacy contracts have up to 25 calendar days from As-of Date.

Data Reporting and Access Process

Data Reporting and Access Process

Phase 1 — Dec 2006

Contractor

In Native Form Factor

CR Holding Area

12 – 17 business days *

or

PM

After 10 business days

Request — Response

Central Repository

OSD / Services

Legend:
- Manual Process (blue)
- Automated Process (red)
- Data Access (green)

* -- From "As-of Date", for contracts beginning after April 2005. Legacy contracts have up to 25 calendar days from "As-of Date".

Data Reporting and Access Process

Data Reporting and Access Process

Phase 3
March 2007

Contractor

In Native TRN or XML

CR Holding Area

12 – 17 business days *   or

Review/Comment

After 10 business days

PM

Request   Response

Central Repository

OSD / Services

Manual Process
Automated Process
Data Access

* -- From "As-of Date", for contracts beginning after April 2005. Legacy contracts have up to 25 calendar days from "As-of Date".

Data Reporting and Access Process

Data Reporting and Access Process

Phase 5
May 2007

Contractor

In TRN or UNCFACT XML

CR Holding Area

12 – 17 business days *

or

Review/Comment

PM

After 10 business days

Top-level data

Central Repository

or

Request

Response

DAMR

or

OSD / Services

Manual Process
Automated Process
Data Access

* -- From "As-of Date", for contracts beginning after April 2005. Legacy contracts have up to 25 calendar days from "As-of Date".

Data Reporting and Access Process

Phase 6
June 2007

Contractor

In TRN or UNCFACT XML

CR Holding Area

Review/Comment

After 10 business days

PM

Top-level data

Central Repository

or

DAMIR
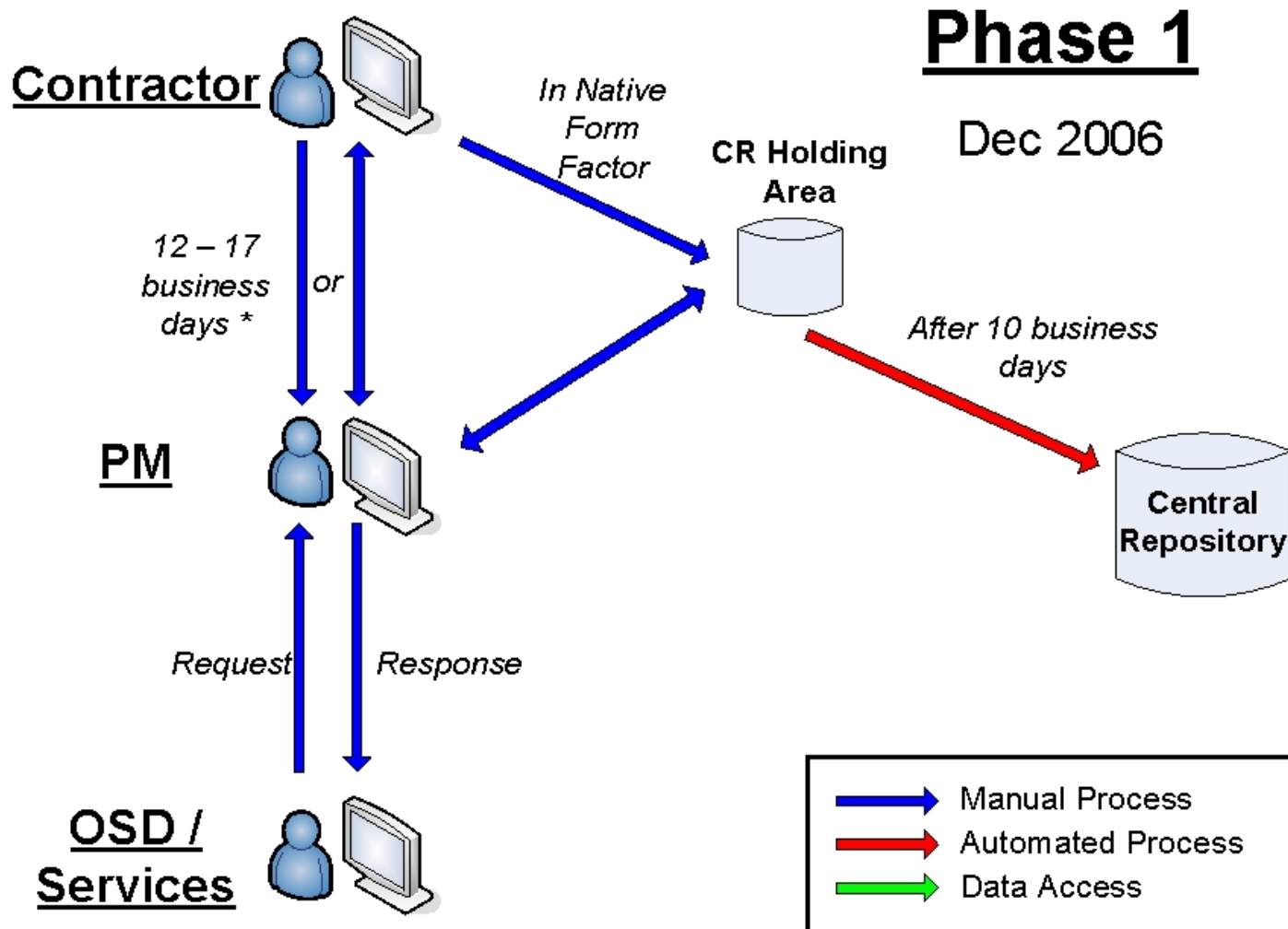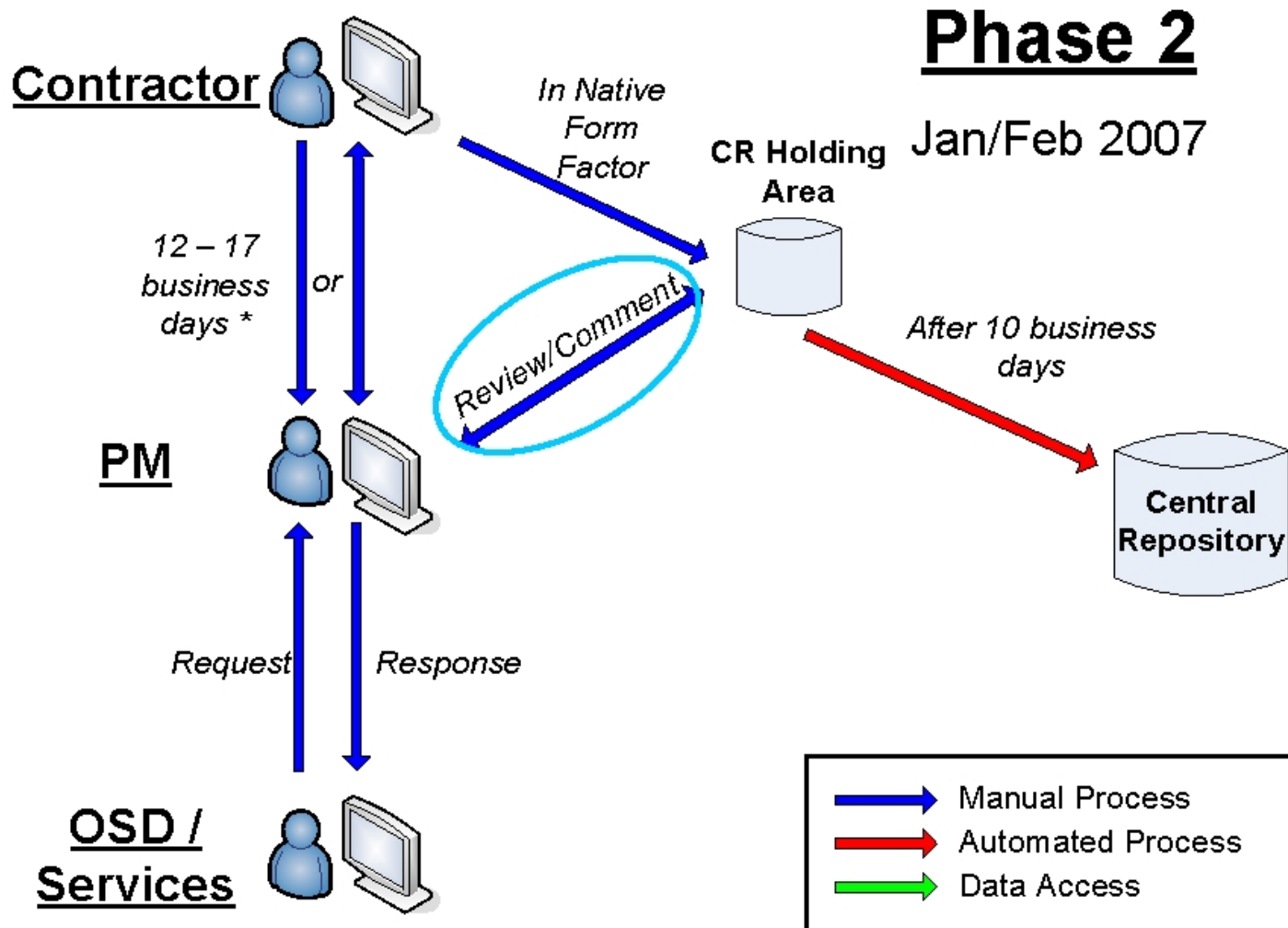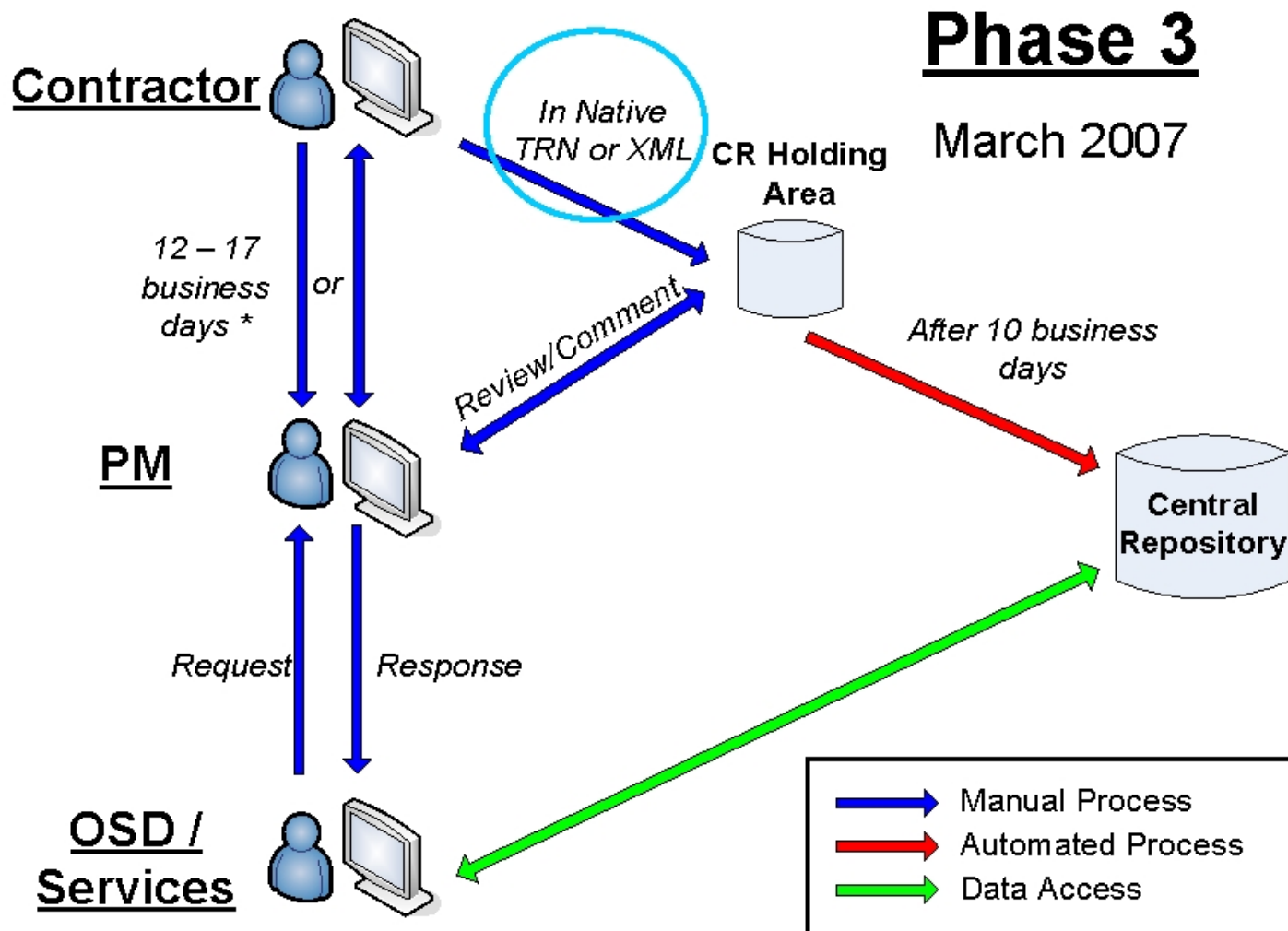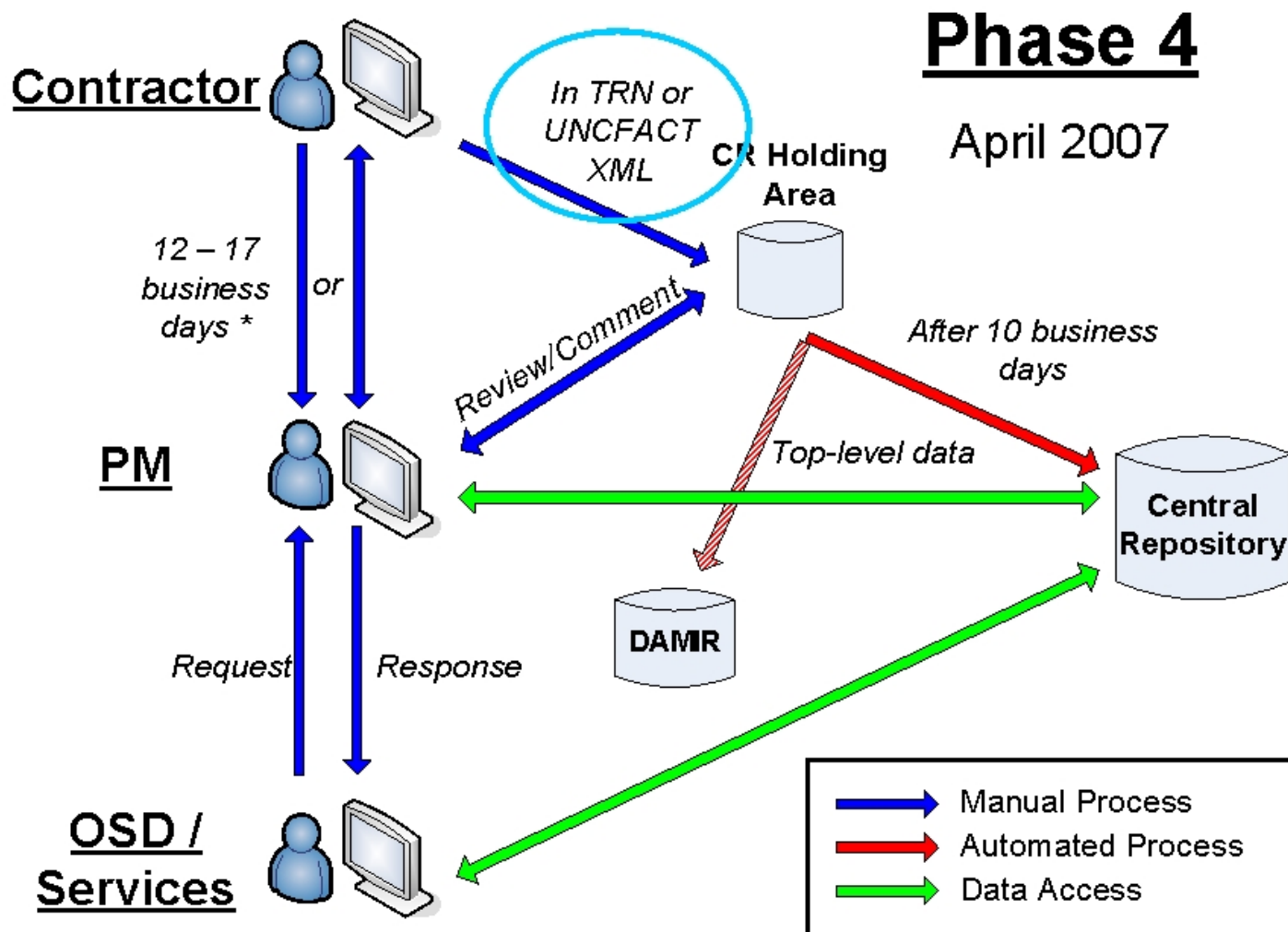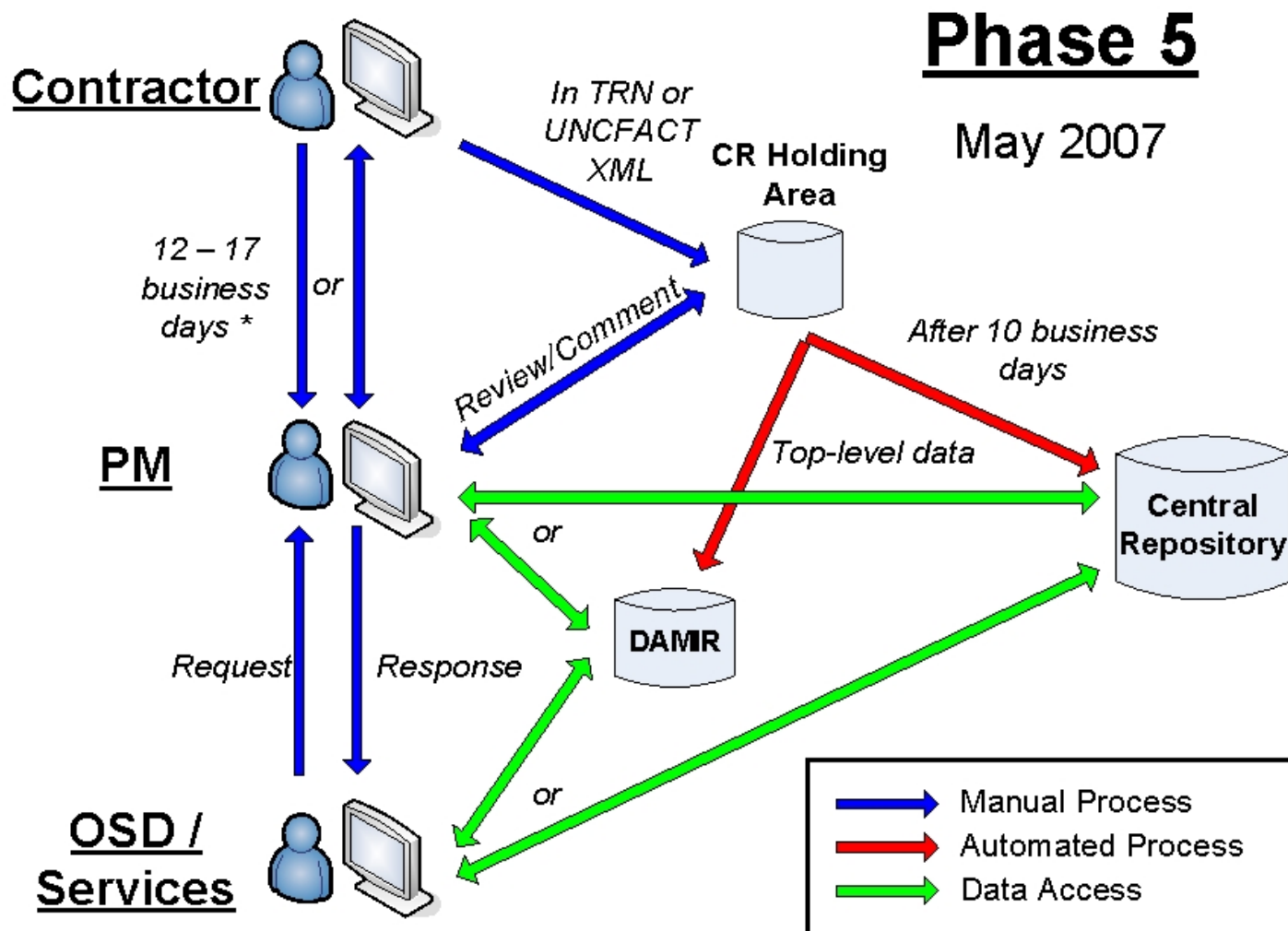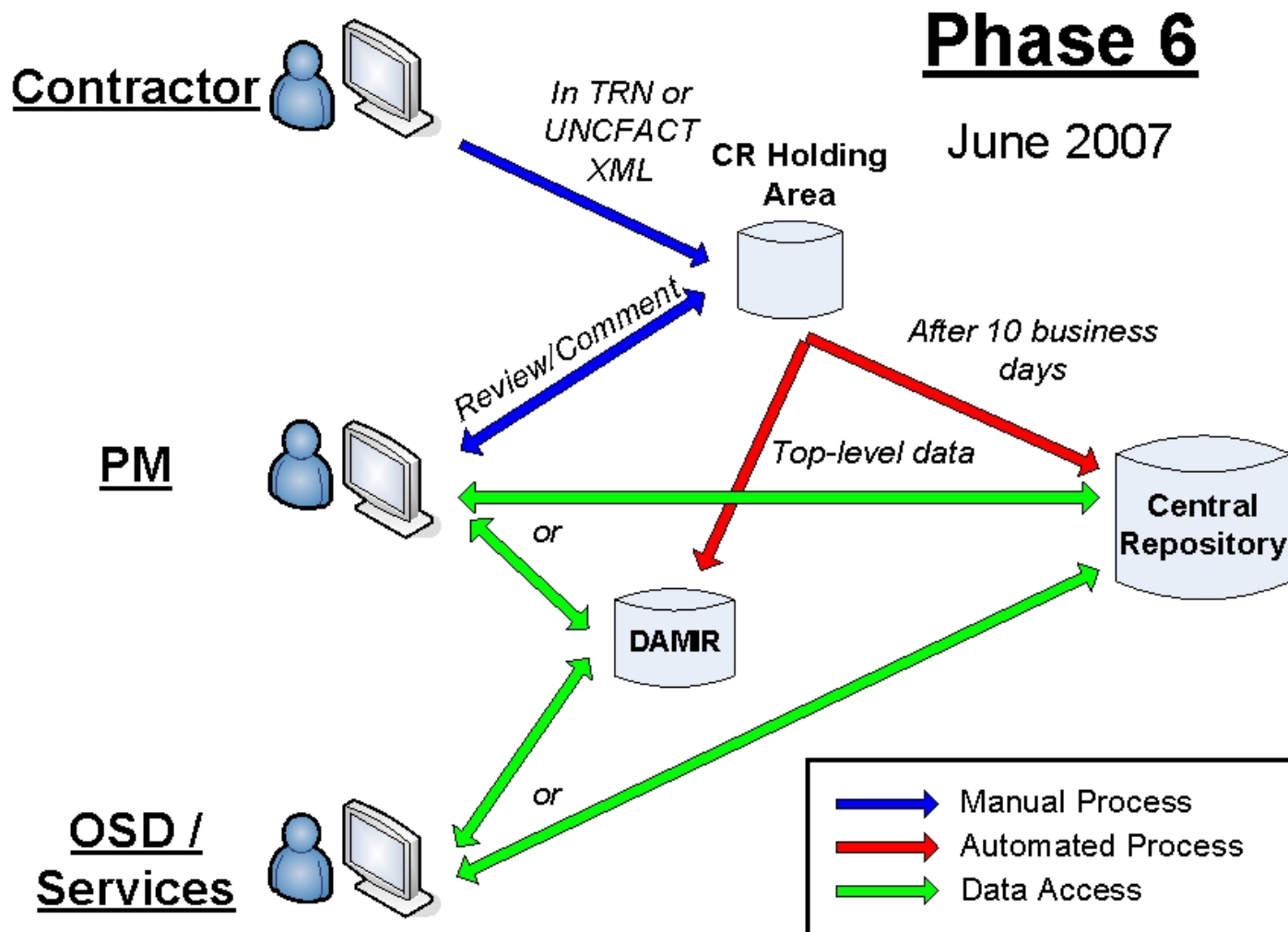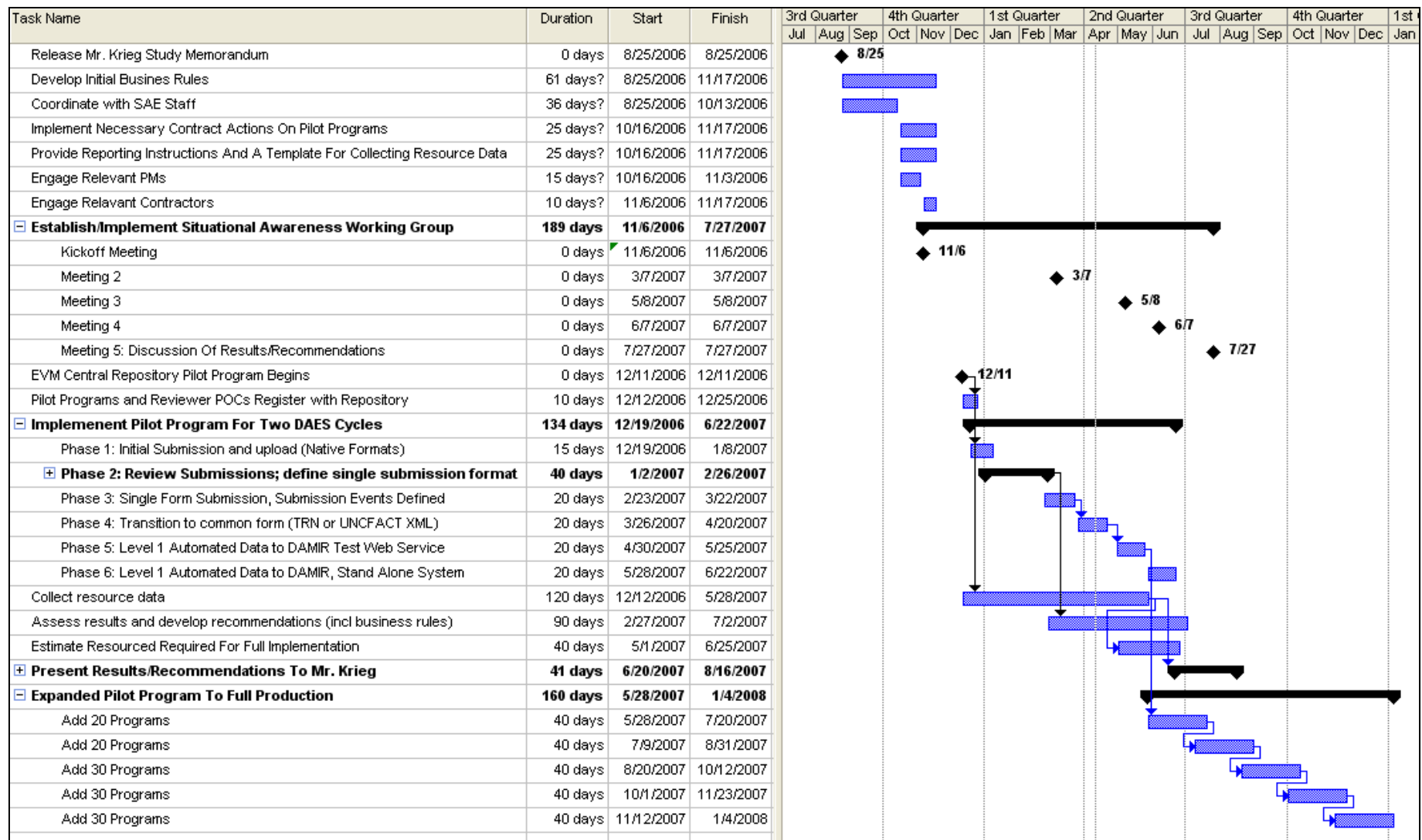
or

OSD / Services

Legend:
- Manual Process
- Automated Process
- Data Access

* -- From "As-of Date", for contracts beginning after April 2005. Legacy contracts have up to 25 calendar days from "As-of Date".

Repository Pilot Current Schedule

Task Name	Duration	Start	Finish
Release Mr. Krieg Study Memorandum	0 days	8/25/2006	8/25/2006
Develop Initial Busines Rules	61 days?	8/25/2006	11/17/2006
Coordinate with SAE Staff	36 days?	8/25/2006	10/13/2006
Implement Necessary Contract Actions On Pilot Programs	25 days?	10/16/2006	11/17/2006
Provide Reporting Instructions And A Template For Collecting Resource Data	25 days?	10/16/2006	11/17/2006
Engage Relevant PMs	15 days?	10/16/2006	11/3/2006
Engage Relavant Contractors	10 days?	11/6/2006	11/17/2006
Establish/Implement Situational Awareness Working Group	**189 days**	**11/6/2006**	**7/27/2007**
Kickoff Meeting	0 days	11/6/2006	11/6/2006
Meeting 2	0 days	3/7/2007	3/7/2007
Meeting 3	0 days	5/8/2007	5/8/2007
Meeting 4	0 days	6/7/2007	6/7/2007
Meeting 5: Discussion Of Results/Recommendations	0 days	7/27/2007	7/27/2007
EVM Central Repository Pilot Program Begins	0 days	12/11/2006	12/11/2006
Pilot Programs and Reviewer POCs Register with Repository	10 days	12/12/2006	12/25/2006
Implemenent Pilot Program For Two DAES Cycles	**134 days**	**12/19/2006**	**6/22/2007**
Phase 1: Initial Submission and upload (Native Formats)	15 days	12/19/2006	1/8/2007
Phase 2: Review Submissions; define single submission format	**40 days**	**1/2/2007**	**2/26/2007**
Phase 3: Single Form Submission, Submission Events Defined	20 days	2/23/2007	3/22/2007
Phase 4: Transition to common form (TRN or UNCFACT XML)	20 days	3/26/2007	4/20/2007
Phase 5: Level 1 Automated Data to DAMIR Test Web Service	20 days	4/30/2007	5/25/2007
Phase 6: Level 1 Automated Data to DAMIR, Stand Alone System	20 days	5/28/2007	6/22/2007
Collect resource data	120 days	12/12/2006	5/28/2007
Assess results and develop recommendations (incl business rules)	90 days	2/27/2007	7/2/2007
Estimate Resourced Required For Full Implementation	40 days	5/1/2007	6/25/2007
Present Results/Recommendations To Mr. Krieg	**41 days**	**6/20/2007**	**8/16/2007**
Expanded Pilot Program To Full Production	**160 days**	**5/28/2007**	**1/4/2008**
Add 20 Programs	40 days	5/28/2007	7/20/2007
Add 20 Programs	40 days	7/9/2007	8/31/2007
Add 30 Programs	40 days	8/20/2007	10/12/2007
Add 30 Programs	40 days	10/1/2007	11/23/2007
Add 30 Programs	40 days	11/12/2007	1/4/2008

Benefits of the EVM CR

- **Timeliness**
  - *Top-level data available to DAMIR and services databases (SMART, AIM, DASHBOARD) two to five months prior than in current system*
- **Transparency**
  - *All parties are looking at the same data at the same time*
- **Accountability**
  - *OSD and Services can gain insight into which programs are actually using their own EV data*
- **Access**
  - *Currently holds 102 complete CPR submissions from nine programs*
- **Single Business Process**
  - *All contractors and program offices using the same system to provide and review Earned Value data*

Problems Incurred To Date

- *Resolved*
  - *Registration for the Central Repository was slow*
  - *Program Offices filtered/did not properly convey requirements to contractors*
  - *Contractors did not provide all data required by CDRLs*
    - *All formats and form factors not submitted*
    - *"Actual" CPRs not submitted*
  - *Programs did not provide monthly Resource Tracking data*
  - *DCMA slow to participate*
- *Open*
  - *Online comment/review features not being utilized*
    - *Pilot participants still performing duplicate efforts while testing (e.g., separate submissions to both CR and Programs)*
  - *"Auto" transfer of data to DAMIR/Services has not occurred*
    - *Delays due data problems*
    - *Service Acquisition Staff's IT personnel slow to "constructively" engage*
  - *Analyst role not implemented*
    - *Delays due data problems*

Lessons Learned to Date

- **Addition of EVM CR to CDRL distribution list is**
  - *Required*
  - *No-cost change*
- **Submissions and file sizes larger than expected**
  - *Should be manageable with proper planning*
- **All programs collect multiple form factors**
  - *Including wInsight (TRN), XML, XLS*
- **Major contractors willing to test conversion to UNCEFAT XML "free of charge"**
- **Extensive planning/discussion with Program Office is necessary as programs are added to the CR**
  - *Determine all contracts/"tasks" being reported*
  - *Determine all form factors, formats being submitted*
  - *Define expected submission dates and as-of dates*
- **Thorough training documents are needed for registration, upload and review processes**

Lessons Learned to Date

- *Once up and running, upload/review to the CR takes minimal additional time*
  - *Average 3 hours per program per month for upload*
  - *Average 2 hours per program per month for PO review*
  - *Note: Pilot participants still performing duplicate efforts while testing (e.g., separate submissions to both CR and Programs). EVM CR should reduce effort.*
- *CFSR will be simple to add to CR*
  - *CFSR are small files (usually Excel-compatible), usually reported quarterly*
- *IMS will be difficult to add to CR*
  - *Living document rather than a periodic report*
    - *Some exist as contractor-hosted web-based portals only*
  - *Large files (60-200mb)*
  - *Contains more detail than is useful for high-level decisions*

Questions To Be Answered

- *What are the resources required to change the distribution list? **Pilot program contractors have indicated that this is no cost.***
- *How do we affect a change in the distribution list? Is it necessary? **Single Process Initiative, yes!***
- *What should the standard form factor be? **UNCFACT XML or TRN***
- *What are the resources required to change the form factor? **Pilot program contractors have indicated that this is no cost.***
- *How do we affect a change in the form factor? **Single Process Initiative***
- *Who are the authorized reviewers and users? **See business rules.***
- *What are the needed data transfers to DAMIR and the Services? **Currently, Level 1 data for DAMIR.***
- *What additional business rules are needed? **Needed to develop business rules for the "Analyst Role".***

Recommendations

- *Continue Pilot*
  - *Work the "auto" transfer of data*
  - *Transfer to UNCEFAT XML form factor*
  - *Implement Analyst role*
  - *Expand collection of data to include CFSRs*
- *Expand number of participating programs*
  - *Requires a contract change for CDRL changes*
    - *Distribution list*
    - *Form factor*
  - *Add approx. 10 ACAT 1 programs in September 2007*
    - *Starting with Rotary Aircraft programs*
  - *Add approx. 10 more programs every month*
    - *By System Command and/or commodity type*
  - *All ACAT I programs participating by January 2008*
- *Explore changing the IMS DID to include a more useful report*
  - *Use same WBS level as the CPR and CCDR*
  - *May require specification of form factor or definition of an extract from a contractor-hosted web portal*